

## NSLS OHSAS Job Risk Assessment

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<b>Name(s) of Risk Team Members:</b> J. Aloï, A. Borrelli, J. Oliva, A. Santiago	<b>Point Value → Parameter ↓</b>	1	2	3	4	5
<b>Job Title:</b> <span style="color: blue;">Performing LOTO</span>  <b>Job Number or Job Identifier:</b> <span style="color: blue;">LS-JRA-0005</span>	<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Description:</b> Performing LOTO	<b>Severity (C)</b>	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional): LOTO Authorized, Electrical Safety I	<b>Likelihood (D)</b>	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Approved by: W. R. Casey    Date: 8/29/05 Rev. #: 1 <a href="#">Revision Log</a>						
<b>Stressors (if applicable, please list all):</b>		<b>Reason for Revision (if applicable):</b>			<b>Comments:</b>	

		Before Controls							After Initial Controls						After Additional Controls					
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Electrical LOTO: Operation of disconnects and circuit breakers	Electrocution		1	3	5	5	75	Proper grounding, proper equipment design (NRTL approved), proper lighting	1	3	5	1	15							

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	Electrical Shock		1	3	3	5	45	Proper grounding, proper equipment design (NRTL approved), proper lighting	1	3	3	1	9							
	Arc Flash		1	3	5	5	75	Training, proper grounding, proper equipment design (NRTL approved), NFPA 70E compliant PPE, standards & procedures, proper lighting	1	3	4	1	12							
Electrical LOTO: Meter voltage check on energized conductor	Electrocution		1	3	5	5	75	Training, proper grounding, NFPA 70E compliant PPE, standards & procedures, proper CAT meter, energized work permit, proper lighting	1	3	5	1	15							
	Electrical Shock		1	3	3	5	45	Training, proper grounding, NFPA 70E compliant PPE, standards & procedures, proper CAT meter, energized work permit, proper lighting	1	3	3	1	9							

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	Arc Flash		1	3	5	5	75	Training, proper grounding, equipment design (NRTL approved), NFPA 70E compliant PPE, standards & procedures, proper CAT meter, energized work permit, proper lighting	1	3	3	2	18							
Electrical LOTO: Zero energy verification (if wrong isolating device was opened)	Electrocution		1	3	5	5	75	Training, proper grounding, NFPA 70E compliant PPE, standards & procedures, proper CAT meter, energized work permit, proper lighting	1	3	5	1	15							
	Electrical Shock		1	3	3	5	45	Training, proper grounding, NFPA 70E compliant PPE, standards & procedures, proper CAT meter, energized work permit, proper lighting	1	3	3	1	9							

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	Arc Flash		1	3	5	5	75	Training, proper grounding, equipment design (NRTL approved), NFPA 70E compliant PPE, standards & procedures, proper CAT meter, energized work permit, proper lighting	1	3	3	1	9							
Radiation Generating Device LOTO	Radiation exposure							Training, procedures, PPE, labels, work planning See <b>LS-JRA-0024</b> for radiation exposure ranking numbers, proper lighting												
May apply to any type of LOTO: (electrical, mechanical, pneumatic, hydraulic, radiation, etc.)	Struck by, crush hazard		1	3	3	5	45	Training, procedures, PPE, labels, work planning	1	3	3	1	9							
	Reflex Injury		1	3	5	5	75	Training, standards & procedures	1	3	5	1	15							
	Hand tool use							See <b>LS-JRA-0014</b>												

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	Hand held power tool use							See <b>LS-JRA-0013</b>												
	Elevated Work							See <b>LS-JRA-0035</b>												
Further Description of Controls Added to Reduce Risk:																				
*Risk:	0 to 20 Negligible	21 to 40 Acceptable					41 to 60 Moderate			61 to 80 Substantial			81 or greater Intolerable							